L Number	Hits	Search Text	DB	Time stamp
1	328	vldl same receptor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:20
2	35	(vldl same receptor) and polymorph$5 and cardiovasc$7	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:25
4	0	vohl-m-c.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:25
3	3	engert-j.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:25
5	10	hudson-t-j.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:26
6	7	brewer-c.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/07 14:26

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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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FILE 'HOME' ENTERED AT 13:43:48 ON 07 NOV 2002

=> file medline biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE 'BIOSIS' ENTERED AT 13:43:59 ON 07 NOV 2002
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=> s engert j /au

L1 113 ENGERT J

=> s vohl m-c /au

L2 80 VOHL M-C

=> s brewer c /au

L3 297 BREWER C

=> s l1 and l2

L4 0 L1 AND L2

=> s l1 and l3

L5 0 L1 AND L3

=> s gaudet d /au

L6 101 GAUDET D

=> s vldl (s) receptor

L7 3858 VLDL (S) RECEPTOR

=> d his

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FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 13:43:59 ON 07 NOV 2002

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L1           113 S ENGERT J /AU
L2            80 S VOHL M-C /AU
L3           297 S BREWER C /AU
L4             0 S L1 AND L2
L5             0 S L1 AND L3
L6           101 S GAUDET D /AU
L7          3858 S VLDL (S) RECEPTOR

=> s l1 and l7

L8             0 L1 AND L7

=> s gaudet d/au AND Brewer c/au

L9             3 GAUDET D/AU AND BREWER C/AU

=> dup rem l9

PROCESSING COMPLETED FOR L9
L10            2 DUP REM L9 (1 DUPLICATE REMOVED)

=> d l10 total ibib
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L10 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000:502734 BIOSIS

DOCUMENT NUMBER: PREV200000502734

TITLE: A genome-wide scan for CHD susceptibility in the Saguenay-Lac-Saint-Jean region of Quebec.

AUTHOR(S): Engert, J. C. (1); Vohl, M.-C.; Lepage, P. (1); Dor, C. (1); **Brewer, C. (1)**; Frappier, D. (1); Verner, A. (1); Platko, J.; Rioux, J.; **Gaudet, D.**; Morgan, K. (1); Hudson, T. J. (1)

CORPORATE SOURCE: (1) Montreal Genome Ctr, L3-401, Montreal General Hosp, Montreal, PQ Canada

SOURCE: American Journal of Human Genetics, (October, 2000) Vol. 67, No. 4 Supplement 2, pp. 303. print.
Meeting Info.: 50th Annual Meeting of the American Society of Human Genetics Philadelphia, Pennsylvania, USA October 03-07, 2000 American Society of Human Genetics
. ISSN: 0002-9297.

DOCUMENT TYPE: Conference

LANGUAGE: English

SUMMARY LANGUAGE: English

L10 ANSWER 2 OF 2 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2001012466 MEDLINE

DOCUMENT NUMBER: 20428186 PubMed ID: 10973253

TITLE: The common PPARgamma Pro12Ala polymorphism is associated with decreased risk of type 2 diabetes.

AUTHOR: Altshuler D; Hirschhorn J N; Klannemark M; Lindgren C M; Vohl M C; Nemesh J; Lane C R; Schaffner S F; Bolk S; **Brewer C**; Tuomi T; **Gaudet D**; Hudson T J; Daly M; Groop L; Lander E S

CORPORATE SOURCE: Whitehead Institute/MIT Center for Genome Research, Cambridge, Massachusetts, USA.

SOURCE: NATURE GENETICS, (2000 Sep) 26 (1) 76-80.
Journal code: 9216904. ISSN: 1061-4036.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (META-ANALYSIS)

LANGUAGE: English

FILE SEGMENT: Priority Journals
ENTRY MONTH: 200010
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001030

=> s hudson t j/au AND Vohl M C/au

L11 11 HUDSON T J/AU AND VOHL M C/AU

=> dup rem l11

PROCESSING COMPLETED FOR L11
L12 8 DUP REM L11 (3 DUPLICATES REMOVED)

=> d l12 total ibib

L12 ANSWER 1 OF 8 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 2002272550 EMBASE
TITLE: 5' flanking variants of resistin are associated with obesity.
AUTHOR: Engert J.C.; **Vohl M.-C.**; Williams S.M.; Lepage P.; Loredo-Osti J.C.; Faith J.; Dore C.; Renaud Y.; Burtt N.P.; Villeneuve A.; Hirschhorn J.N.; Altshuler D.; Groop L.C.; Despres J.-P.; Gaudet D.; **Hudson T.J.**
CORPORATE SOURCE: Dr. T.J. Hudson, Montreal Genome Centre, MGHRI, MUHC, Montreal, Que. H3G 1A4, Canada. tom.hudson@mcgill.ca
SOURCE: Diabetes, (2002) 51/5 (1629-1634).
Refs: 25
ISSN: 0012-1797 CODEN: DIAEAZ
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 003 Endocrinology
005 General Pathology and Pathological Anatomy
017 Public Health, Social Medicine and Epidemiology
022 Human Genetics
LANGUAGE: English
SUMMARY LANGUAGE: English

L12 ANSWER 2 OF 8 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 2002208239 EMBASE
TITLE: Effect of apolipoprotein E, peroxisome proliferator-activated receptor alpha and lipoprotein lipase gene mutations on the ability of fenofibrate to improve lipid profiles and reach clinical guideline targets among hypertriglyceridemic patients.
AUTHOR: Brisson D.; Ledoux K.; Bosse Y.; St-Pierre J.; Julien P.; Perron P.; **Hudson T.J.**; **Vohl M.-C.**; Gaudet D.
CORPORATE SOURCE: D. Gaudet, Montreal Univ. Comm. Gen. Med. Ctr., Lipid Research Group, Chicoutimi Hospital, 305 St-Vallier, Chicoutimi, Que. G7H 5H6, Canada. dgaudet@saglac.qc.ca
SOURCE: Pharmacogenetics, (2002) 12/4 (313-320).
Refs: 44
ISSN: 0960-314X CODEN: PHMCEE
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular Surgery
022 Human Genetics
030 Pharmacology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L12 ANSWER 3 OF [redacted] MEDLINE
ACCESSION NUMBER: 2001312527 MEDLINE
DOCUMENT NUMBER: 21278264 PubMed ID: 11385633
TITLE: Glycerol: a neglected variable in metabolic processes?.
AUTHOR: Brisson D; **Vohl M C**; St-Pierre J; **Hudson T J**; Gaudet D
CORPORATE SOURCE: Lipid Research Group, Chicoutimi Hospital, Quebec, Canada.
SOURCE: BIOESSAYS, (2001 Jun) 23 (6) 534-42. Ref: 62
Journal code: 8510851. ISSN: 0265-9247.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200107
ENTRY DATE: Entered STN: 20010723
Last Updated on STN: 20010723
Entered Medline: 20010719

L12 ANSWER 4 OF 8 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 2001259694 MEDLINE
DOCUMENT NUMBER: 21140484 PubMed ID: 11243726
TITLE: A sequence variation in the mitochondrial glycerol-3-phosphate dehydrogenase gene is associated with increased plasma glycerol and free fatty acid concentrations among French Canadians.
AUTHOR: St-Pierre J; **Vohl M C**; Brisson D; Perron P; Despres J P; **Hudson T J**; Gaudet D
CORPORATE SOURCE: Dyslipidemia, Diabetes and Atherosclerosis Research Group, Chicoutimi Hospital, Quebec, Canada.
SOURCE: MOLECULAR GENETICS AND METABOLISM, (2001 Mar) 72 (3) 209-17.
Journal code: 9805456. ISSN: 1096-7192.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200105
ENTRY DATE: Entered STN: 20010521
Last Updated on STN: 20010521
Entered Medline: 20010517

L12 ANSWER 5 OF 8 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 2000287643 MEDLINE
DOCUMENT NUMBER: 20287643 PubMed ID: 10828087
TITLE: Molecular scanning of the human PPARa gene: association of the L162v mutation with hyperapobetalipoproteinemia.
AUTHOR: **Vohl M C**; Lepage P; Gaudet D; Brewer C G; Betard C; Perron P; Houde G; Cellier C; Faith J M; Despres J P; Morgan K; **Hudson T J**
CORPORATE SOURCE: Montreal Genome Centre, McGill University Health Centre, Montreal, Canada.
SOURCE: JOURNAL OF LIPID RESEARCH, (2000 Jun) 41 (6) 945-52.
Journal code: 0376606. ISSN: 0022-2275.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200008
ENTRY DATE: Entered STN: 20000811
Last Updated on STN: 20000811
Entered Medline: 20000802

L12 ANSWER 6 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER 2000:502734 BIOSIS
DOCUMENT NUMBER: PREV200000502734
TITLE: A genome-wide scan for CHD susceptibility in the Saguenay-Lac-Saint-Jean region of Quebec.
AUTHOR(S): Engert, J. C. (1); **Vohl, M.-C.**; Lepage, P. (1); Dor, C. (1); Brewer, C. (1); Frappier, D. (1); Verner, A. (1); Platko, J.; Rioux, J.; Gaudet, D.; Morgan, K. (1); **Hudson, T. J. (1)**
CORPORATE SOURCE: (1) Montreal Genome Ctr, L3-401, Montreal General Hosp, Montreal, PQ Canada
SOURCE: American Journal of Human Genetics, (October, 2000) Vol. 67, No. 4 Supplement 2, pp. 303. print.
Meeting Info.: 50th Annual Meeting of the American Society of Human Genetics Philadelphia, Pennsylvania, USA October 03-07, 2000 American Society of Human Genetics
. ISSN: 0002-9297.
DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English

L12 ANSWER 7 OF 8 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 2001012466 MEDLINE
DOCUMENT NUMBER: 20428186 PubMed ID: 10973253
TITLE: The common PPARgamma Pro12Ala polymorphism is associated with decreased risk of type 2 diabetes.
AUTHOR: Altshuler D; Hirschhorn J N; Klannemark M; Lindgren C M; **Vohl M C**; Nemesh J; Lane C R; Schaffner S F; Bolk S; Brewer C; Tuomi T; Gaudet D; **Hudson T J**; Daly M; Groop L; Lander E S
CORPORATE SOURCE: Whitehead Institute/MIT Center for Genome Research, Cambridge, Massachusetts, USA.
SOURCE: NATURE GENETICS, (2000 Sep) 26 (1) 76-80.
Journal code: 9216904. ISSN: 1061-4036.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (META-ANALYSIS)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200010
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001030

L12 ANSWER 8 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:490787 BIOSIS
DOCUMENT NUMBER: PREV200000490908
TITLE: Large-scale candidate gene association studies of type 2 diabetes.
AUTHOR(S): Hirschhorn, J. N. (1); Altshuler, D. (1); Lindgren, C. M.; Klannemark, M.; Daly, M. (1); **Vohl, M.-C.**; Nemesh, J. (1); Lane, C. (1); Bolk, S. (1); **Hudson, T. J. (1)**; Groop, L.; Lander, E. S. (1)
CORPORATE SOURCE: (1) Whitehead Institute/MIT Center for Genome Research, Cambridge, MA USA
SOURCE: American Journal of Human Genetics, (October, 2000) Vol. 67, No. 4 Supplement 2, pp. 49. print.
Meeting Info.: 50th Annual Meeting of the American Society of Human Genetics Philadelphia, Pennsylvania, USA October 03-07, 2000 American Society of Human Genetics
. ISSN: 0002-9297.
DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English

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FULL ESTIMATED COST	33.10	33.31

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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
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now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
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NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
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NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
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FULL ESTIMATED COST	0.21	0.21

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FILE 'BIOSIS' ENTERED AT 14:29:20 ON 07 NOV 2002
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=> s (vldl (s) receptor) (p) polymorph?

L1 133 (VLDL (S) RECEPTOR) (P) POLYMORPH?

=> s (vldl (s) receptor) (s) polymorph?

L2 122 (VLDL (S) RECEPTOR) (S) POLYMORPH?

=> s (vldl (a) receptor) (s) polymorph? (s) cardiovasc?

L3 1 (VLDL (A) RECEPTOR) (S) POLYMORPH? (S) CARDIOVASC?

=> d l3 ibib kwic

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:677000 CAPLUS
DOCUMENT NUMBER: 135:237669
TITLE: Single nucleotide polymorphic sites identified in nucleic acid mols. encoding human very low density lipoprotein receptor (VLDLr), their sequences and use in determining likelihood of individual having a cardiovascular disease
INVENTOR(S): Engert, James; Vohl, Marie-Claude; Brewer, Carl; Morgan, Kenneth; Gaudet, Daniel; Hudson, Thomas J.
PATENT ASSIGNEE(S): Complexe Hospitalier de la Sagamie, Can.; McGill University
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066801	A2	20010913	WO 2001-US7444	20010308

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002155446	A1	20021024	US 2001-802320	20010308

PRIORITY APPLN. INFO.: US 2000-187787P P 20000308

ST human very low density lipoprotein receptor SNP sequence; single nucleotide **polymorphism** human **VLDL receptor** **cardiovascular** disease risk; primer human VLDL receptor SNP specific cardiovascular disease risk; probe human VLDL receptor SNP specific cardiovascular disease risk

IT Lipoprotein **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**VLDL**; single nucleotide **polymorphic** sites identified in nucleic acid mols. (DNA and/or cDNA) encoding human very low d. lipoprotein receptor (VLDLr), their sequences and use in detg. likelihood of individual having a **cardiovascular** disease)

=> d his

(FILE 'HOME' ENTERED AT 14:29:08 ON 07 NOV 2002)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 14:29:20 ON 07 NOV 2002

L1 133 S (VLDL (S) RECEPTOR) (P) POLYMORPH?
L2 122 S (VLDL (S) RECEPTOR) (S) POLYMORPH?
L3 1 S (VLDL (A) RECEPTOR) (S) POLYMORPH? (S) CARDIOVASC?

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.23	20.44

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☐ **1:** J Clin Invest 2000 Nov;106(10):1263-70

Comment in:

- J Clin Invest. 2000 Nov;106(10):1205-7.

Age and residual cholesterol efflux affect HDL cholesterol levels and coronary artery disease in ABCA1 heterozygotes.

Clee SM, Kastelein JJ, van Dam M, Marcil M, Roomp K, Zwarts KY, Collins JA, Roelants R, Tamasawa N, Stulc T, Suda T, Ceska R, Boucher B, Rondeau C, DeSouich C, Brooks-Wilson A, Molhuizen HO, Frohlich J, Genest J Jr, Hayden MR.

Centre for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada.

We and others have recently identified mutations in the ABCA1 gene as the underlying cause of Tangier disease (TD) and of a dominantly inherited form of familial hypoalphalipoproteinemia (FHA) associated with reduced cholesterol efflux. We have now identified 13 ABCA1 mutations in 11 families (five TD, six FHA) and have examined the phenotypes of 77 individuals heterozygous for mutations in the ABCA1 gene. ABCA1 heterozygotes have decreased HDL cholesterol (HDL-C) and increased triglycerides. Age is an important modifier of the phenotype in heterozygotes, with a higher proportion of heterozygotes aged 30-70 years having HDL-C greater than the fifth percentile for age and sex compared with carriers less than 30 years of age. Levels of cholesterol efflux are highly correlated with HDL-C levels, accounting for 82% of its variation. Each 8% change in ABCA1-mediated efflux is predicted to be associated with a 0.1 mmol/l change in HDL-C. ABCA1 heterozygotes display a greater than threefold increase in the frequency of coronary artery disease (CAD), with earlier onset than unaffected family members. CAD is more frequent in those heterozygotes with lower cholesterol efflux values. These data provide direct evidence that impairment of cholesterol efflux and consequently reverse cholesterol transport is associated with reduced plasma HDL-C levels and increased risk of CAD.

PMID: 11086027 [PubMed - indexed for MEDLINE]

☐ 1: Clin Biochem 2000 Aug;33(6):441-7

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ELSEVIER SCIENCE
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Association between triglyceride-rich lipoprotein remnant receptor polymorphisms and lipid traits.

Song J, Hong SH, Min W, Kim JQ.

Department of Clinical Pathology, Seoul National University College of Medicine, Seoul, South Korea.

OBJECTIVES: The metabolism of triglyceride-rich lipoproteins (TRL) is, in part, mediated by lipoprotein receptors (such as low density lipoprotein receptor-related protein [LRP] and very low density lipoprotein [VLDL] receptors), which recognize TRL remnants after specific binding with apolipoprotein E. The purpose of this study was to explore the association of the genetic polymorphisms of remnant receptors with lipid, lipoprotein, and apolipoprotein levels including remnant-like particle-cholesterol (RLP-C). DESIGN AND METHODS: Using polymerase chain reaction-amplified DNA, VLDL receptor tetranucleotide repeat polymorphism, LRP trinucleotide repeat polymorphism, and LRP exon 3 polymorphism were analyzed in normal adults (control group: n = 161) and in patients with coronary artery disease (CAD group: n = 102). RESULTS: The allelic distributions of VLDL receptor triple repeat polymorphism, LRP tetranucleotide repeat polymorphism, and LRP exon 3 polymorphism in Koreans were similar to those of Japanese but were significantly different from those of other ethnic groups. There were no significant differences in the allele frequencies of the polymorphisms between the control and CAD groups. VLDL receptor polymorphism in the control group ($p = 0.0403$) and LRP exon 3 polymorphism in the CAD group ($p = 0.0459$) showed significant associations with lipoprotein (a) [Lp(a)] levels. CONCLUSIONS: The results of the present study demonstrated significant interracial distribution of remnant receptor polymorphisms. There was no association between the remnant receptor polymorphisms and the RLP-C levels. However, the polymorphisms showed a significant association with Lp(a), which may suggest that the Lp(a) metabolism is in part mediated by the uptake through the remnant receptors.

PMID: 11074235 [PubMed - indexed for MEDLINE]

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Common genetic variation in ABCA1 is associated with altered lipoprotein levels and a modified risk for coronary artery disease.

Clee SM, Zwinderman AH, Engert JC, Zwarts KY, Molhuizen HO, Roomp K, Jukema JW, van Wijland M, van Dam M, Hudson TJ, Brooks-Wilson A, Genest J Jr, Kastelein JJ, Hayden MR.

Centre for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, Canada.

BACKGROUND: Low plasma HDL cholesterol (HDL-C) is associated with an increased risk of coronary artery disease (CAD). We recently identified the ATP-binding cassette transporter 1 (ABCA1) as the major gene underlying the HDL deficiency associated with reduced cholesterol efflux. Mutations within the ABCA1 gene are associated with decreased HDL-C, increased triglycerides, and an increased risk of CAD. However, the extent to which common variation within this gene influences plasma lipid levels and CAD in the general population is unknown. METHODS AND RESULTS: We examined the phenotypic effects of single nucleotide polymorphisms in the coding region of ABCA1. The R219K variant has a carrier frequency of 46% in Europeans. Carriers have a reduced severity of CAD, decreased focal (minimum obstruction diameter 1.81+/-0.35 versus 1.73+/-0.35 mm in noncarriers, P:=0.001) and diffuse atherosclerosis (mean segment diameter 2.77+/-0.37 versus 2.70+/-0.37 mm, P:=0.005), and fewer coronary events (50% versus 59%, P:=0.02). Atherosclerosis progresses more slowly in carriers of R219K than in noncarriers. Carriers have decreased triglyceride levels (1.42+/-0.49 versus 1.84+/-0.77 mmol/L, P:=0.001) and a trend toward increased HDL-C (0.91+/-0.22 versus 0.88+/-0.20 mmol/L, P:=0.12). Other single nucleotide polymorphisms in the coding region had milder effects on plasma lipids and atherosclerosis. CONCLUSIONS: These data suggest that common variation in ABCA1 significantly influences plasma lipid levels and the severity of CAD.

PMID: 11238261 [PubMed - indexed for MEDLINE]